

PATENT SPECIFICATION



Application Date: Oct. 21, 1938. No. 30555/38.

520,414

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Complete Specification Accepted: April 23, 1940.

PROVISIONAL SPECIFICATION

Improvements in or relating to Stoppers for Bottles or the like

I, ARTHUR FRANK HURLSTONE, of Holbrook Park, Horsham, Sussex, a British Subject, do hereby declare the nature of this invention to be as follows:—

5 This invention relates to stoppers for bottles and the like.

According to this invention the stopper comprises a cork or bung adapted to fit into the neck of the bottle, means for 10 maintaining the cork within the bottle, said cork having an aperture extending axially therethrough, and a cap or lid having an axial pin adapted to fit into the aperture in the cork so as to form a fluid-tight seal.

15 One form of the invention will now be described in its application to a stopper intended for a glass perfume bottle. A cork is fitted into the neck of the bottle so that the upper surface lies flush with 20 the top of the neck. The cork is provided with a central aperture extending from the top to the bottom thereof. A thin metal securing cap is placed over the cork, the edges of the cap being 25 turned down over the beading provided at the top of the neck of the bottle, so as to maintain the cork permanently in position. The cap is provided with a central 30 aperture corresponding with the aperture in the cork and is further provided with

a short tubular projection surrounding the aperture, the internal diameter of the tube being substantially the same as that of the aperture in the cork. A removable 35 cap is adapted to be placed over the neck of the bottle with its cork and securing cap. The removable cap comprises a cup-shaped member substantially cylindrical in form. A cylindrical pin is provided on the underside of the top of the 40 cap, said pin being adapted to project through the tubular projection on the securing cap into the aperture in the cork. The tubular projection on the 45 securing cap serves to form a guide for the projecting pin and a seat for the top of the cap. The projecting pin makes a tight fit with the aperture in the cork thereby preventing the passage of fluid 50 when the cap is in position. The inside diameter of the cylindrical portion of the cap is slightly greater than the overall width of the neck of the bottle and the 55 securing cap, so that the sides of the cap do not touch the bottle. Preferably the pin is longer than the sides of the cap.

Dated this 21st day of October, 1938.
MEWBURN, ELLIS & CO.,
70 & 72, Chancery Lane, London, W.C.2,
Chartered Patent Agents.

COMPLETE SPECIFICATION

Improvements in or relating to Stoppers for Bottles or the like

I, ARTHUR FRANK HURLSTONE, of Holbrook Park, Horsham, Sussex, a British 60 Subject, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

65 This invention relates to stoppers for bottles and the like.

According to this invention the stopper comprises a cork or bung adapted to fit into the mouth of a bottle, means for 70 permanently maintaining the cork within the bottle, said cork having an aperture extending axially therethrough, and a cap or lid having an axial pin adapted to fit

into the aperture in the cork so as to form a fluid-tight seal. 75

One form of the invention will now be described in its application to a stopper intended for a glass perfume bottle and illustrated in the accompanying drawings, wherein: 80

Fig. 1 is a sectional elevation of the stopper with the outer cap removed; and Fig. 2 is a similar view showing the outer cap in the closed position.

Referring to the drawings a cork 1 is 85 fitted into the neck 2 of the bottle so that the upper surface lies flush with the top of the neck. The cork 1 is provided with a central aperture 3 extending from the top

[Price 1/-]

to the bottom thereof. A thin metal securing cap 4 is placed over the cork 1, the edges 5 of the cap 4 being turned down over the beading 6 provided at the top of the neck 2 of the bottle, so as to maintain the cork 1 permanently in position. The cap 4 is provided with a central aperture 7 corresponding with the aperture 3 in the cork 1 and is further provided with a short tubular projection 8 surrounding the aperture, the internal diameter of the tube 8 being substantially the same as that of the aperture 3 in the cork 1. A removable outer lid or cap 9 is adapted to be placed over the neck 2 of the bottle with its cork 1 and securing cap 4. The removable cap 9 comprises a cup-shaped member substantially cylindrical in form. A cylindrical pin 10 is provided on the underside of the top of the cap, said pin 10 being adapted to project through the tubular projection 8 on the securing cap 4 into the aperture 3 in the cork 1. The tubular projection 8 on the securing cap 4 serves to form a guide for the projecting pin 10 and a seat for the top of the cap 9. The projecting pin 10 makes a tight fit with the aperture 3 in the cork thereby preventing the passage of fluid when the cap is in position. The inside diameter of the cylindrical portion of the cap is slightly greater than the overall width of the neck 2 of the bottle and the securing cap 4, so that the sides of the cap 9 do not touch the neck of the bottle. Preferably the pin is longer than the sides of the cap.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to

be performed, I declare that what I claim is:—

1. A stopper for bottles or the like comprising a cork or bung adapted to fit into the mouth of a bottle, means for permanently maintaining the cork within the bottle, said cork having an aperture extending axially therethrough and a cap or lid having an axial pin adapted to fit the aperture in the cork so as to form a fluid-tight seal.

2. A stopper according to claim 1 wherein the cork is secured in the neck of a bottle by a securing cap, the peripheral edge of which is adapted to be turned down over the neck of the bottle.

3. A stopper according to claim 2 wherein the securing cap is provided with an upstanding tubular projection coaxial with the aperture in the cork, said tubular projection being adapted to receive the pin on the outer cap or lid.

4. A stopper according to claim 2 or 3 wherein the outer cap or lid is cylindrical in form, the cylindrical wall being adapted to enclose the neck of the bottle, cork, and securing cap, when in the closed position.

5. A stopper according to claim 4 wherein the pin on the outer cap is longer than the cylindrical wall.

6. A stopper constructed, arranged, and adapted for use, substantially as described with reference to the accompanying drawings.

Dated this 6th day of October, 1939.

MEWBURN, ELLIS & CO.,
70 & 72, Chancery Lane, London, W.C.2,
Chartered Patent Agents.

[This Drawing is a reproduction of the Original on a reduced scale.]

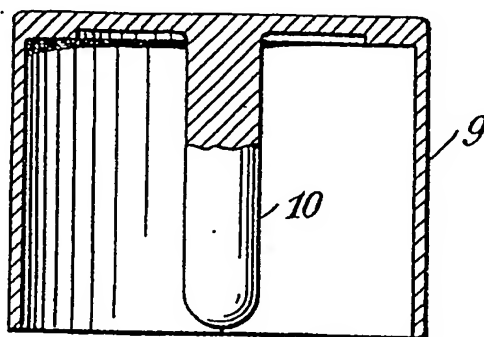


Fig. 1.

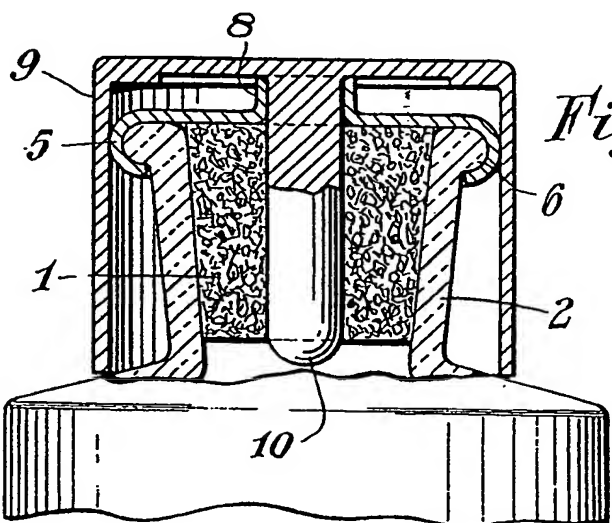
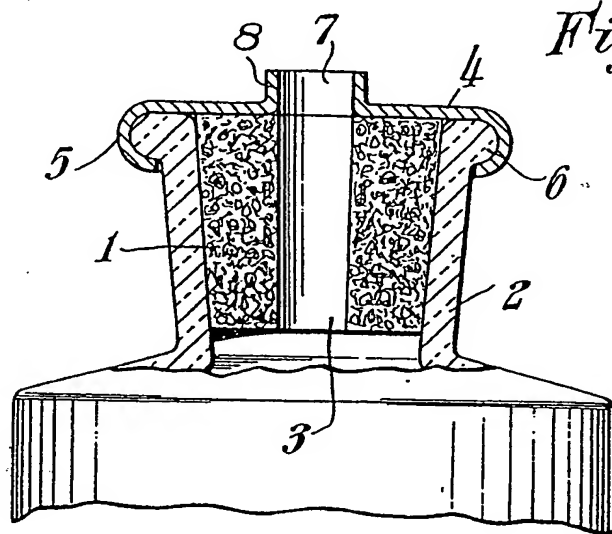


Fig. 2.